ABSTRACT

The image of an object is improved by estimating the scattered radiation that it transmits to the detectors. To achieve this, one uses the scattered radiation effectively measured through an imitation of the object, having analogous attenuation properties, and which one modifies by the weighting coefficients obtained by a transformation of the values of the total radiation received through the object (3) and the selected imitation (8). One thus manages to improve the image without subjecting the object to a double irradiation in order to measure the scattered radiation separately. The principal applications are tomography, bone densitometry and non-destructive controls.

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